**Year 13 Consolidation 11**

**Total Marks: 9**

**Question 5**

*[Edexcel C3 Jan 2006 Q4b]*

Given that , find in terms of .

**Correct answer:**

**Their answer:**

**(5 marks)**

**Question 15**

*[Edexcel C3 Jan 2006 Q8d Edited]*

The functions and are defined by

,

,

It can be shown that

Find the value of for which , giving your answer to 3 significant figures.

**Correct answer:**

-0.418

**Their answer:**

-0.418

**(4 marks)**